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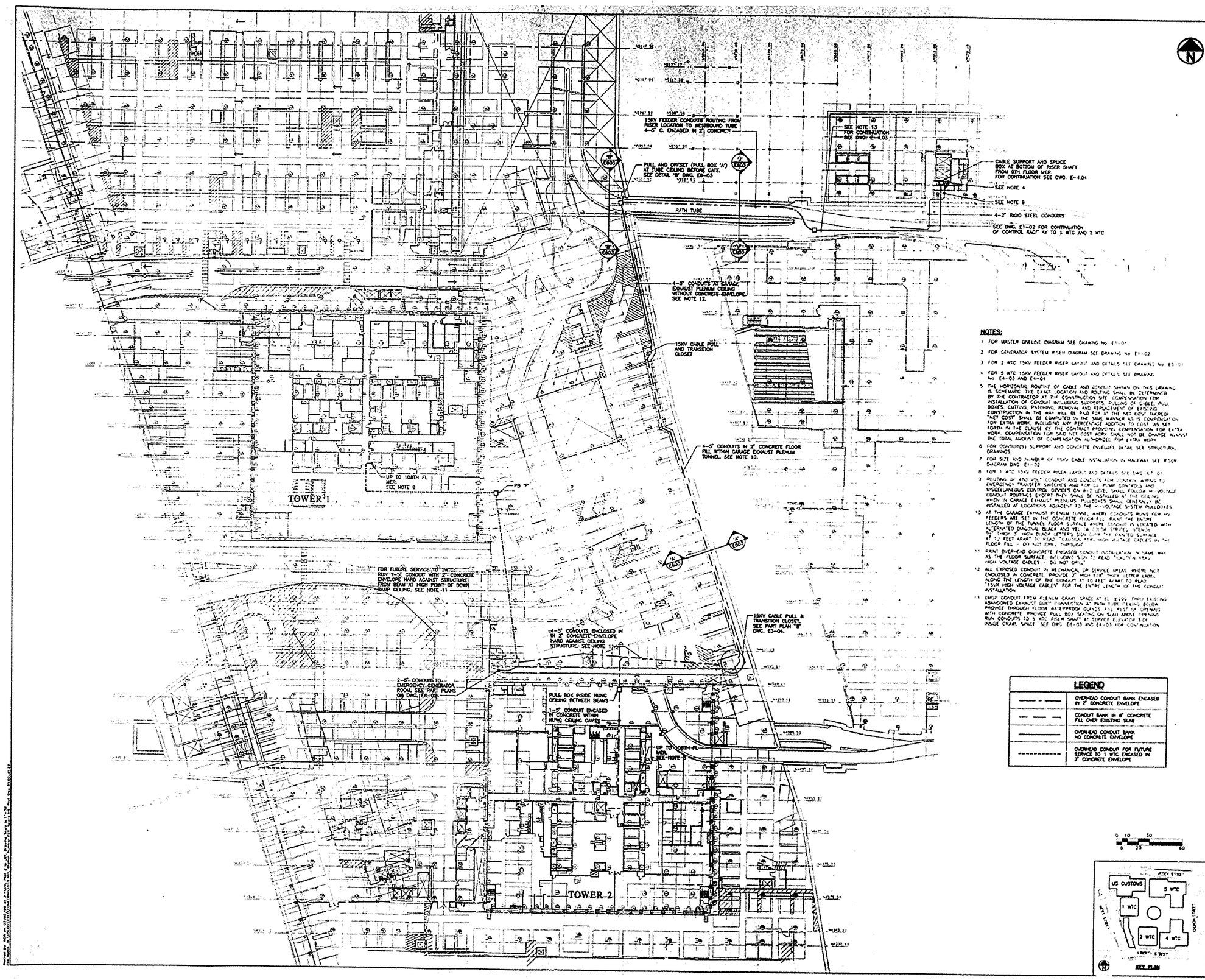

NOTES:

1 FOR MASTER ONELINE DIAGRAM SEE DRAWING No. E1-01
2 FOR GENERATOR SYSTEM RISER DIAGRAM SEE DRAWING No. E1-02
3 FOR 2 WTC 15KV FEEDER RISER LAYOUT AND DETAILS SEE DRAWING No. E5-01
4 FOR 5 WTC 15KV FEEDER RISER LAYOUT AND DETAILS SEE DRAWING No. E4-03 AND E4-04
5 THE HORIZONTAL ROUTING OF CABLE AND CONDUIT SHOWN ON THIS DRAWING IS SCHEMATIC. THE EXACT LOCATION AND ROUTING SHALL BE DETERMINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE. COMPENSATION FOR INSTALLATION OF CONDUIT INCLUDING SUPPORTS, PULLING OF CABLE, PULL BOXES, CUTTING, PATCHING, REMOVAL AND REPLACEMENT OF EXISTING CONSTRUCTION IN THE WAY, WILL BE PAID FOR AT THE NET COST THEREOF. "NET COST" SHALL BE COMPUTED IN THE SAME MANNER AS IN COMPENSATION FOR EXTRA WORK, INCLUDING ANY PERCENTAGE ADDITION TO COST, AS SET FORTH IN THE CLAUSE OF THE CONTRACT PROVIDING COMPENSATION FOR EXTRA WORK. COMPENSATION FOR SAID NET COST WORK SHALL NOT BE CHARGED AGAINST THE TOTAL AMOUNT OF COMPENSATION AUTHORIZED FOR EXTRA WORK.
6 FOR CONDUIT(S) SUPPORT AND CONCRETE ENVELOPE DETAIL SEE STRUCTURAL DRAWINGS.
7 FOR SIZE AND NUMBER OF 15KV CABLE INSTALLATION IN RACEWAY SEE RISER DIAGRAM DWG. E1-02
8 FOR 1 WTC 15KV FEEDER RISER LAYOUT AND DETAILS SEE DWG. E7-01
9 ROUTING OF 480 VOLT CONDUIT AND CONDUITS FOR CONTROL WIRING TO EMERGENCY TRANSFER SWITCHES AND FOR EL PUMP CONTROLS AND MISCELLANEOUS CONTROL DEVICES ON B-2 LEVEL SHALL FOLLOW HI-VOLTAGE CONDUIT ROUTINGS EXCEPT THEY SHALL BE INSTALLED AT THE CEILING WHEN IN GARAGE EXHAUST PLENUMS. PULLBOXES SHALL GENERALLY BE INSTALLED AT LOCATIONS ADJACENT TO THE HI-VOLTAGE SYSTEM PULLBOXES.
10 AT THE GARAGE EXHAUST PLENUM TUNNEL WHERE CONDUITS RUNS FOR HV FEEDERS ARE SET IN THE CONCRETE FLOOR FILL PAINT THE ENTIRE LENGTH OF THE TUNNEL FLOOR 5'-0" ALTERNATE WHERE CONDUIT IS LOCATED WITH ALTERNATED DIAGONAL BLACK AND YELLOW STRIPES. STENCIL 3" THICK 5" HIGH BLACK LETTERS SPACED ON PAINTED SURFACE AT 12 FEET APART TO READ "CAUTION 15KV HIGH VOLTAGE CABLES IN THE FLOOR FILL - DO NOT DRILL THROUGH"
11 PAINT OVERHEAD CONCRETE ENCASED CONDUIT INSTALLATION IN SAME WAY AS THE FLOOR SURFACE, INCLUDING SIGNS TO READ "CAUTION 15KV HIGH VOLTAGE CABLES - DO NOT DRILL"
12 ALL EXPOSED CONDUIT IN MECHANICAL OR SERVICE AREAS, WHERE NOT ENCLOSED IN CONCRETE, PROVIDE 3" HIGH 1/8" THICK LEXAN LABEL ALONG THE LENGTH OF THE CONDUIT AT 10 FEET APART TO READ "15KV HIGH VOLTAGE CABLES" FOR THE ENTIRE LENGTH OF THE CONDUIT INSTALLATION
15 DROP CONDUIT FROM PLENUM CRAWL SPACE AT EL. 8.292 THRU EXISTING ABANDONED EXHAUST DUCT CONNECTION AT PATH TUBE CEILING BELOW. PROVIDE THROUGH FLOOR WATERPROOF SLEEVES FILL PILOT OPENING WITH CONCRETE. PROVIDE PULL BOX STARTING ON SLAB ABOVE OPENING. RUN CONDUITS TO 5 WTC RISER SHAFT AT SERVICE ELEVATOR SIDE INSIDE CRAWL SPACE. SEE DWG. E6-03 AND E4-03 FOR CONTINUATION

LEGEND

— — — —	OVERHEAD CONDUIT BANK ENCASED IN 2" CONCRETE ENVELOPE
— — — —	CONDUIT BANK IN 6" CONCRETE FILL OVER EXISTING SLAB
— — — —	OVERHEAD CONDUIT BANK NO CONCRETE ENVELOPE
— — — —	OVERHEAD CONDUIT FOR FUTURE SERVICE TO 1 WTC ENCASED IN 2" CONCRETE ENVELOPE

0 10 30
5 20 60

No.	Date	Revision	Approved

Engineering Department
Design Divisions

The World Trade Center

File

STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL

B2 FLOOR LEVEL
15KV FEEDER
ROUTING

This drawing is subject to conditions of contract & restrictions. Ideas, designs and methods shown are reserved to Port Authority and may not be used without its written consent.

File	Work	
Designed by	Drawn by	Check by
Date	Scale	
11/17/97	AS NOTED	
Contract Number		Drawing Number
WTC-946.071		E6-01